

**CRAIG/KLAWOCK HERRING SPAWN-ON-KELP POUND FISHERY  
MANAGEMENT PLAN, 1992**



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Regional Information Report No. 1J92-06

Alaska Department of Fish and Game  
Commercial Fisheries Division  
Southeast Region  
Juneau, Alaska

January 1992

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## INTRODUCTION

This plan provides an overview of the management approach and regulations governing the 1992 Spawn-On-Kelp Pound Fishery on the west coast of Prince of Wales Island near the communities of Craig and Klawock, Alaska. Staff biologists listed at the end of this document are available to answer questions regarding this plan. Pound operators are also advised to review other agency requirements as described on pages 9 through 11.

A pound fishery involves releasing sexually mature herring into a net impoundment in which kelp is suspended. The herring are released from the pound after they spawn on the kelp, and the kelp with eggs are then sold. Examples of two types of herring pounds are shown in Figure 1.

Winter food and bait herring fisheries have occurred in District 3 (Meares Passage and in the Bocas de Finas area) since the 1960's. Seasonal landings from the 1960's through 1985 were small, with yearly landings averaging approximately 210 tons. From 1986 through 1991 the herring population has grown dramatically in Section 3-B with annual landings averaging approximately 2,225 tons (Table 1).

The estimated size of the Section 3-B (Craig/Klawock area) herring population is based upon the spawn deposition surveys conducted by Department herring research personnel. Spawn deposition studies have been used since 1988 to determine the herring biomass. Prior to 1988, hydroacoustical surveys were used to estimate population size. Table 1 shows the estimated yearly biomass since 1986.

Annual harvest levels are based on a graduated scale that allows for higher harvest rates as the herring population increases relative to the threshold level (Figure 2). The established threshold level for the Craig/Klawock stock is 10 million pounds. The scale provides for a uniform method for establishing harvest levels for each of the herring fisheries throughout the region. No harvest is allowed if the biomass estimate for the stock is less than the threshold level; when the estimate of mature stock is at the threshold level a 10 percent harvest is allowed. The harvest rate increases 2 percent each time the estimated spawning biomass increases by an amount equal to the threshold level and reaches a maximum of 20 percent when the population is six times the threshold level.

In the spring of 1991, an estimated biomass of 35.6 million pounds of herring spawned over 22 nautical miles of shoreline in the Craig/Klawock area. This allows for a harvest rate of approximately 15.02 percent of the mature herring stock, or a guideline harvest level of 2,684 tons for the herring fisheries in the Craig/Klawock area.

The Alaska Board of Fisheries created the Section 3-B herring spawn-on-kelp in pounds fishery to start in 1992. In the Section 3-B spawn-on-kelp fishery, the harvest limit is 15 percent of the total guideline

harvest level for the Craig/Klawock herring stock. The remaining 85 percent of the guideline harvest level is allocated to the traditional herring bait and food fishery. No pound fishery will be allowed in Section 3-B if 15 percent of the overall quota is less than 100 tons of herring. Therefore, the guideline harvest level for the 1992 Section 3-B herring spawn-on-kelp fishery is 15.02 percent of 2,684 tons, or 403 tons of herring. This should equal approximately 32.2 tons of spawn-on-kelp product. The remaining 85 percent, or 2,281 tons will be harvested in the winter food and bait fishery.

The following is a calendar of events to be considered by pound operators for the 1992 fishing season.

December 9 - Department of Fish and Game pound permit applications will be available.

January 31 - Deadline for submitting an application to the Department of Fish and Game for a pound permit.

February 14 - The department will issue a permit to each applicant that has met the January 31 deadline.

February 14 - U.S. Forest Service special-use permit applications are due (if needed).

March 8 - A completed pound must be present on the fishing grounds by this date.

March 9 - A Department representative will be on the grounds to inspect each pound.

March 10 - Allocations will be made for each pound operator that has a completed pound in the fishing area.

March 11 - Kelp permits will be available.

March 16 - The fishery will open to the capture of herring to be transferred into pounds.

May 15 - Pounds must be completely removed from the water by this date.

## **REGULATIONS**

The Alaska Board of Fisheries approved the following regulations creating the new pound fishery in Section 3-B [see 5AAC 27.110. FISHING SEASONS (f) and 5AAC 27.185. MANAGEMENT PLAN FOR HERRING SPAWN-ON-KELP IN POUNDS. (a), (b), and (c)(1) through (6)]:

1. Herring spawn-on-kelp in pounds may be taken only during periods established by emergency order.
2. Herring pounds for the taking of spawn-on-kelp in pounds may be operated only under terms of a permit issued by the Department.
3. Pounds for the taking of herring spawn-on-kelp in pounds may be operated only in waters of Section 3-B. **The exact locations of the pounds will be announced in early January.**
4. The current allocation allows for 403 tons of herring to be captured and transferred to the pounds. The spawn-on-kelp harvest objective was based on the ratio of one ton of spawn-on-kelp for each 12.5 tons of herring allocated to the fishery. This will allow for a 1992 quota of 32.2 tons of spawn-on-kelp product. The Department will manage the fishery to achieve this harvest objective by restricting those persons holding permits to a specified number of kelp blades annually.
5. The Department shall divide the harvest allocation and the amount of herring available for impounding equally among permit holders.
6. **The operator of a pound shall apply for a permit issued by the Department no later than January 31 of each calendar year.**
7. The permit must specify the following:
  - (a) The location where pounds may be operated.
  - (b) The date by which pounds must be operational.
  - (c) The size of, identification requirements for, and method of operation of pounds.
  - (d) The location and methods for taking, retainment, and release of herring and kelp to be used in a pound for the production of herring spawn-on-kelp.
  - (e) The harvest reporting requirements for pound operators; and
  - (f) Other guidelines determined by the Department to be necessary for the conservation and management of herring and kelp, and the health, safety, and general welfare of the public.

8. The holder of a herring pound permit shall weigh all spawn-on-kelp taken at the time it is removed from the pound. A representative of the Department will inspect and seal each container of spawn-on-kelp before it is transported from the grounds for processing.
9. Herring for placement in herring spawn-on-kelp pounds may be captured only with purse seines or hand purse seines.

### **FISHERY LOCATION**

The fishery, by regulation, was designated for the waters of Section 3-B, located in those waters of District 103 north of the latitude of Turn Point and south of the latitude of Cape Lynch. The open areas for pounds will be located near the areas of historical spawning. These areas may include waters near Wadleigh Island, San Fernando Island, Port St. Nichols, and San Christoval Channel.

### **HERRING STOCK STATUS**

Available historical information (Table 1) indicates the herring spawning population on the west coast of Prince of Wales Island has increased substantially since the 1970's. From 1970 through 1987 the average linear miles of spawn recorded in the Craig/Klawock area was 5.2 nautical miles. From 1988 through 1991 the average linear miles of spawn recorded has increased to 28 nautical miles. In 1991 22 nautical miles of spawn was observed; dive surveys indicated a spawning biomass of 35.6 million pounds.

Herring spawning normally occurs in the Craig/Klawock area in mid to late March. The earliest observed spawn since the mid-1970's has been March 18, with the latest first spawn occurring on April 6. Traditionally herring spawn on Fish Egg, Wadleigh, Clam, and Abbess Islands. As the herring stock has grown, spawning has been recorded in the area of Portillo Channel, Port Real Marina, the northern shore of San Fernando Island, and along the Prince of Wales Island shore at San Christoval Channel and Shinaku Inlet.

## **PERMIT APPLICATION PROCEDURES**

To establish eligibility for the 1992 fishery, a pound operator must submit an application for a Craig/Klawock pound permit to any southeast Alaska Fish and Game office by **January 31, 1992**. Applications sent by mail must be postmarked no later than January 31. Applications received or postmarked after this date **will not be accepted**. Permit applications will be available by December 9, 1991 at any department area office or they can be obtained by writing the Department of Fish and Game, Division of Commercial Fisheries, 2030 Sea Level Drive #205, Ketchikan, Alaska 99901. **Original applications are required.**

On or about February 14, the Department will issue a permit to each applicant who has met the January 31 deadline. The permit will specify conditions that will be required of each pound operator.

## **PERMIT REQUIREMENTS**

The regulations require the Department to establish permit stipulations for management of the Section 3-B pound fishery. The following stipulations will be specified on each permit:

1. A herring spawn-on-kelp pound is defined as a rigid frame structure with adequate buoyancy to support a net enclosure and spawn-on-kelp, and be used to retain herring alive over extended periods of time. If 150 lbs. of weight placed on any side of the pound submerges a side of the structure, the pound will be declared ineligible.

Each permit holder is required to have a completed pound in the fishing area by **March 8**. A pound will be considered complete when it is fully assembled, anchored offshore, and ready for the installation of the webbing. **A Department representative will be in the fishing area on March 9 to ensure each pound is fully assembled.** It is not necessary for the permittee to be at his pound site when this inspection is being conducted. However, pounds must be clearly identified as stated in requirement 4 below.

2. Each permit holder must operate a single pound. Pound operators may cooperatively work among themselves by connecting and anchoring their pounds together. **However, each pound must have its own net enclosure and be capable of retaining herring when separated from other pounds. No pounds may share a common wall.**



3. Permit holders may locate their pounds only in locations identified by the department. The open areas for pound operations will be made available in early January.
4. Each pound must be identified by an upright sign in a conspicuous place with the permittee's full name and the number which is assigned to each pound operator. In addition, the pound numbers must also be permanently affixed to the top surface of the pound structure. Letters and numbers must be at least 6 inches high and with lines at least 1/2 inch wide that contrast with the background. Operators with pounds that are not clearly identified will not be able to participate in the fishery.
5. The pound must be constructed so there is a minimum inside surface area of 250 square feet. This restriction is necessary to avoid over-crowding herring.
6. Webbing used for the pounds must be no larger than 1 and 1/4 inch mesh (standard herring web is suggested). This restriction is necessary to avoid gilling of herring in the pound.
7. Each pound must be constructed to include 6 feet of surplus webbing. The webbing should be gathered at the surface in such a manner that it can be easily lowered into the water if the submerged webbing becomes egg-saturated to the extent that it prevents adequate water circulation which could cause suffocation of impounded herring.
8. Each permit holder must be physically present at the pound site continuously from the time herring are introduced into the pound until the spawn-on-kelp is harvested.
9. The set opening date when pound operators may capture herring to be transferred into pounds will be 12:01 a.m., March 16, 1992. If it appears that spawning will occur earlier than this date, the fishery may need to be opened earlier by Field Announcement to avoid the loss of the fishery.
10. Purse seines and hand purse seines will be the only legal gear to harvest herring for the pounds. The size of the sets should be small, usually no more than ten tons of herring should be harvested at one time.
11. The transport of herring to the pound site must be done with the pound itself or a towable net pen. Transporting with a purse seine will not be allowed. Pound operators are also advised to tow slowly to avoid crushing herring against the net.
12. The transfer of herring from the purse seine to the pound must be conducted in such a manner that handling mortality is minimized. Brailing, dipnetting or rolling herring into the pound will not

be allowed. An acceptable method is to bring the seine and pound together and sink a portion of each to allow herring to swim freely from the seine into the pound.

13. As a general rule, herring may be held for a maximum of eight days or until they are 80% spawned out, whichever occurs first. Retention of herring for longer periods will be allowed only with special authorization by the Department.
14. Open pounding will not be a legal method of operating a pound. Nets may not be lowered in a pound to allow for free movement of herring into a pound. Pound operators may only lower their nets when transferring herring into the pound and when releasing herring immediately prior to the time the spawn-on-kelp will be harvested from the pound.
15. Each permit holder's spawn-on-kelp product must remain separate from the other permit holders until after processing.
16. After release of the captured herring, the pound, including webbing, will remain in place for a minimum of four weeks. Egg covered webbing must remain on the pound frame in the original configuration with adequate water circulation on all sides to optimize hatching success. The Department will notify pound operators through a news release when pounds may be removed from the waters.
17. A permit holder who discontinues their operation must notify the Department and surrender their permit.
18. The permit must be in the possession of the pound operator at all times.
19. The pound structure must be completely removed from the water by May 15, 1992.

#### **HARVEST OF KELP**

A separate permit is required to harvest kelp to be used in the pounds (5AAC 37.900). Kelp harvest permits may be obtained from local Department offices. Approximately 8 tons (16,000 pounds) of raw kelp is needed to produce 32.2 tons of spawn-on-kelp. Kelp permits may be pooled and one or more individuals can harvest for a group of pound operators. The Department will require a listing for all permit holders that the kelp is being harvested. **Kelp permits may be obtained from the Department's**

office in Ketchikan and must be completed and returned to the department within 30 days after the harvesting of kelp.

### **ALLOCATION OF GUIDELINE HARVEST**

On or about March 10, the 32.2 ton spawn-on-kelp guideline harvest, as well as the 403 ton allocation of herring, and 16,000 lbs. allocation of kelp necessary to produce the spawn-on-kelp will be divided equally among all permit holders who have completed pounds in the fishing area by March 8. Notification of the individual allocations will be announced by news release. Further adjustments to the individual allocations may occur after March 10 if any permit holder drops out of the fishery after this date.

Deadloss resulting from the capture, transfer, and holding of herring will be subtracted from individual pound allocations.

### **HARVEST AND PRODUCTION**

Each permit holder's spawn-on-kelp blades must remain separate from other permit holder's spawn-on-kelp blades until after processing. Permit holders will be allowed to harvest all the product produced in their pound. A permit holder's fish ticket must report only the spawn-on-kelp harvested from their pound. A representative of the Department must inspect and seal all containers of harvested spawn-on-kelp (including trimmings) before it is transported from the fishing grounds for processing.

### **REQUIREMENTS FOR BUYERS**

Operators of floating processing vessels will be required to report in person, by VHF radio, or by telephone, to the Department of Fish and Game office in Ketchikan before the start of processing operations in the Craig/Klawock fishery. These reporting requirements are specified by regulation 5AAC 39.130 (f).

Fish tickets must be submitted to the Department within 7 days after landing. Fish tickets should be sent to the Department of Fish and Game, Division of Commercial Fisheries, 2030 Sea Level Drive #205, Ketchikan, Alaska 99901 or submitted to a representative of the Department before leaving the fishing area.

## **LICENSE REQUIREMENTS**

In addition to the Alaska Department of Fish and Game permits required to operate a pound and harvest kelp for transport into a pound, pound operators must also obtain an interim use permit (L21A) from the Commercial Fisheries Entry Commission. Individuals who do not have pound permits but are assisting in the operation of the fishery in any manner must have a crew member license. All commercial vessels (including skiffs) used in the fishery are required to be licensed with the Limited Entry Commission. Fishermen are required to display the permanent vessel license plate (ADF&G number) on both sides of the hull, cabin, or mast in permanent symbols at least 12 inches high and with lines at least 1 inch wide that contrast with the background.

Applications for vessel and interim use permits are available from all offices of the Department of Fish and Game or can be obtained by writing the Commercial Fisheries Entry Commission, 8800-109 Glacier Hwy, Juneau, Alaska 99801-8079. Fishermen are reminded to apply for these licenses well in advance to the fishery since it often takes up to 3-4 weeks to obtain them. Crew member licenses may be obtained from local vendors in most communities.

## **FISHERY CONDUCT AND MANAGEMENT**

Suitable sites for pounds in the Craig/Klawock area are limited. To avoid herring mortality and damage to the pounds, operators should locate their pounds in an area with minimal exposure to wind and wave action, and with a relatively deep bottom. The distance from where the herring are captured and the pound site should also be considered since long towing distances can cause considerable stress and mortality of herring. The Department expects the area near Wadleigh Island, Shinaku Inlet, the east coast of San Fernando Island, and possibly as far south as Port St. Nicholas to be the main focus for anchoring pounds since herring normally spawn near these areas.

The Department will station personnel in the Craig/Klawock area beginning approximately March 4. Department personnel will closely monitor herring activities and all phases of the fishery to assure

compliance with permit conditions. All fishery announcements, including updates of herring activities and fishery openings, will be broadcast by VHF radio, Channel 10. Fishermen are strongly encouraged to have a VHF radio.

The Department will be closely monitoring herring activity in the Craig/Klawock area by vessel and aerial surveys. The Department has set a specific date of **March 16** that pound operators may capture herring to be transferred into pounds. If it appears spawning will occur earlier than this date, the fishery may need to be opened earlier than March 16 to avoid loss of the fishery.

Department personnel will closely monitor the capture and transfer of herring into pounds to ensure that allocations are not exceeded and to document any mortality of herring. Pound operators are advised to use extreme caution when towing herring from the capture site to the pound site since towing can be a source of significant mortality if not done properly. To avoid mortality, the transport of herring to the pound site must be done with the pound itself or a towable net pen. **Transporting with a purse seine will not be allowed.** Pound operators are also advised to tow slowly to avoid crushing herring against the net. The Department will regulate the fishery by setting and enforcing a **strict limitation on the number of kelp blades** that can be put in each permit holder's pound. Pound operators, will then be allowed to harvest all of the spawn-on-kelp from their pounds.

## **OTHER AGENCY REQUIREMENTS**

Prospective pound operators are advised to consider the requirements that other agencies may have to construct and operate pounds in the Craig/Klawock fishery. Some of these requirements are discussed briefly below; however, a pound operator is urged to contact the Alaska Department of Natural Resources (DNR), the U.S. Forest Service, National Marine Fisheries Service and the United States Coast Guard to consider any others. The fishery may also be adjacent to privately-held lands. Pound operators should check current maps available at the Department to determine land ownership.

### ***Department of Natural Resources***

The Alaska Department of Natural Resources (907-465-3400) controls use of tide and submerged lands seaward of mean high water (9.1 ft.). No DNR permits will be required for pound operations; however, a permit is needed for longer term storage of logs.

### ***U.S. Forest Service***

In the Craig/Klawock area, the U.S. Forest Service has jurisdiction over and manages the land above mean high tide which is not privately owned. People who plan to use National Forest land in connection with the fishery must apply for a special use permit from the Forest Service prior to any occupancy. These land uses might include temporary camps, temporary equipment storage, and herring pound storage. Since this is a commercial venture, free wood will not be available for pound construction.

Special use permit applications are available at the Craig Ranger District. Completed applications should be submitted to the Craig Ranger District by **February 14**. The permit fee is \$100.00, and in most cases a bond will be required.

Firewood for personal use may be taken free of charge. Only dead or downed trees may be used for firewood.

Please contact the Craig Ranger District with any questions about use or occupancy of National Forest lands.

### **PRIVATE LANDS**

Although the final locations for the pounds has not been determined, it is possible that the area(s) may be adjacent to privately owned lands. Pound operators should contact the land owners if they intend to use any land above mean high tide. Private land owners may include the Klawock/Heenya Corporation, Shaan-Seet Corporation, and Sea Alaska Corporation. Figure 3 shows the areas of privately held lands in the Craig/Klawock area.

### ***National Marine Fisheries Service***

The National Marine Fisheries Service (907-747-6940) regulates activities which might harm marine mammals. Herring pounds are classed as a Category 3 fishery, which means that participating fishermen do not need to apply for an "exemption". Fishermen may not kill sea lions, sea otters or whales, porpoises or dolphins. Fishermen must report mortality of marine mammals associated with their activities. Since

Federal regulations may change at any time, fishermen should check with their local NMFS office before fishing.

***United States Coast Guard***

Structures such as floating fish pens are subject to the requirements of the Code of Federal Regulations, Title 33, Part 64. This regulation requires an owner to apply for a Coast Guard permit and to install and maintain a light or other private aid to navigation if the Coast Guard determines it to be necessary to protect maritime navigation.

The proposed pens of the Craig/Klawock Spawn-on-Kelp Pound Fishery do not require permits for private aids to navigation at this time, provided the owners:

1. Place a two-sign marker on opposite corners of the structure. These markers will be worded "Danger, Fish Pens" (see Figure 4).
2. Place a single all-round white light on one corner marker on structures less than 400 sq. ft. in size.
3. Place a single all-round white light on every marker on each structure larger than 400 sq. ft. in size.
4. Place and anchor fish pens within the boundary area specified by this permit.
5. Remove the pens from the waterway by May 15, 1992.

If all these conditions are not met, the permit holder must apply to this office for an individual "Private Aids to Navigation permit". If you have any questions, please call Master Chief Yates at the Coast Guard Aids to Navigation office, at 463-2245.

## LIST OF MANAGEMENT CONTENTS

Following are Commercial Fisheries Division contacts regarding this management plan:

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(907) 747-6688

Ray Staska  
Area Management Biologist

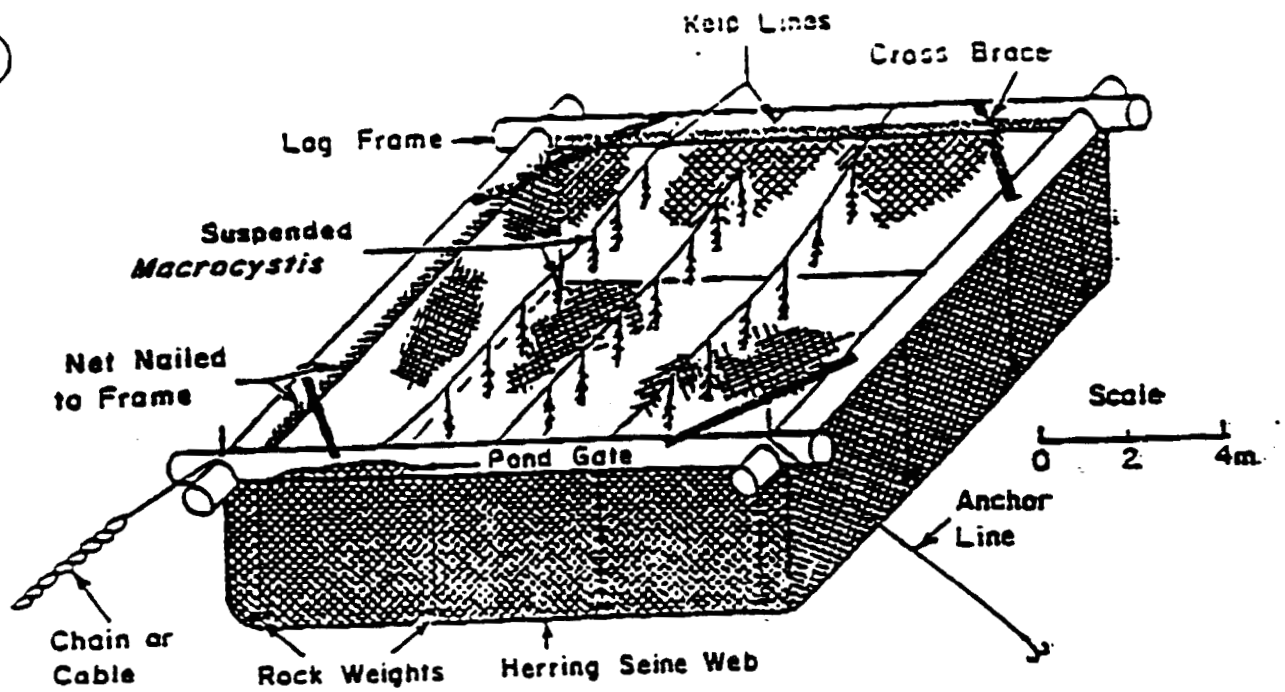
P.O. Box 431  
Haines, Alaska 99827  
(907) 766-2830



Table 1. Craig/Klawock herring stock.

| YEAR | MILES SPAWN | BIOMASS | BAIT QUOTA | BAIT HARVEST |
|------|-------------|---------|------------|--------------|
| 1986 | 2.0         |         | 350        | 370          |
| 1987 | 5.0         | 20.5    | 1,056      | 1,043        |
| 1988 | 27.0        | 32.7    | 2,728      | 1,765        |
| 1989 | 31.7        | 31.7    | 1,810      | 1,800        |
| 1990 | 30.0        | 36.7    | 3,150      | 3,220        |
| 1991 | 22.0        | 35.6    | 2,814      | 3,245        |

(A)



(B)

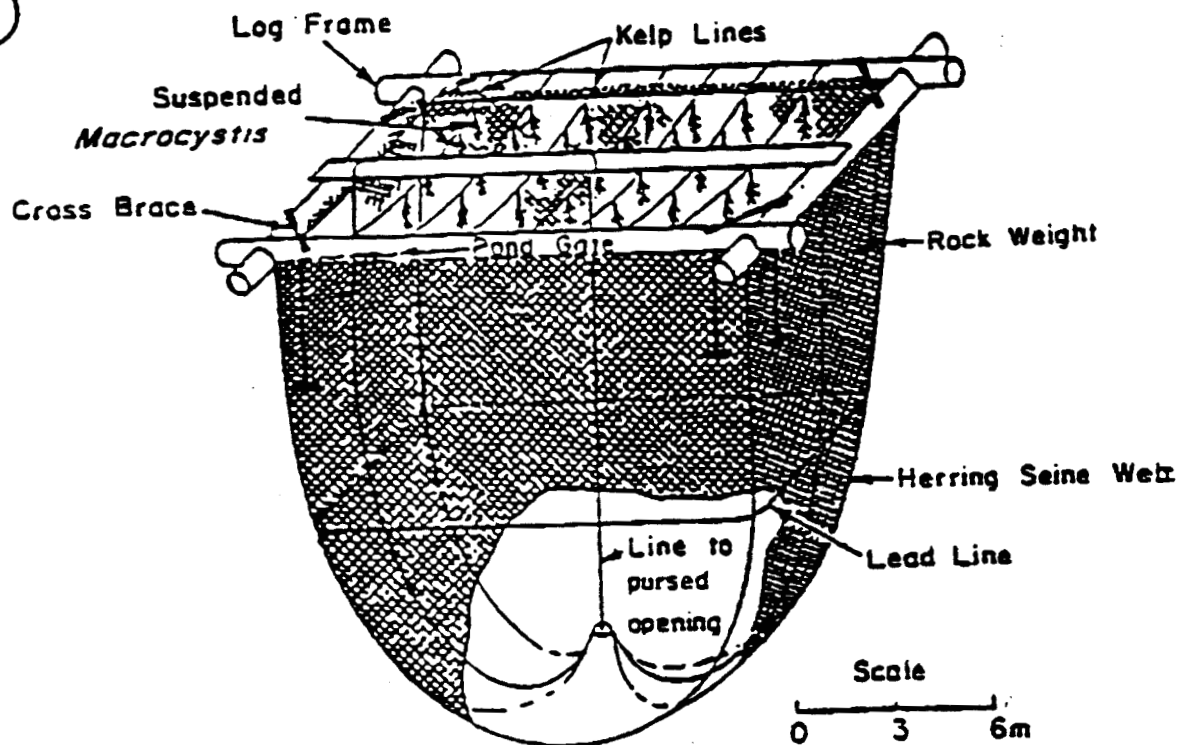


Figure 1. Diagram of typical herring spawn-on-kelp impoundments. (A = shallow water, B = deep water.)

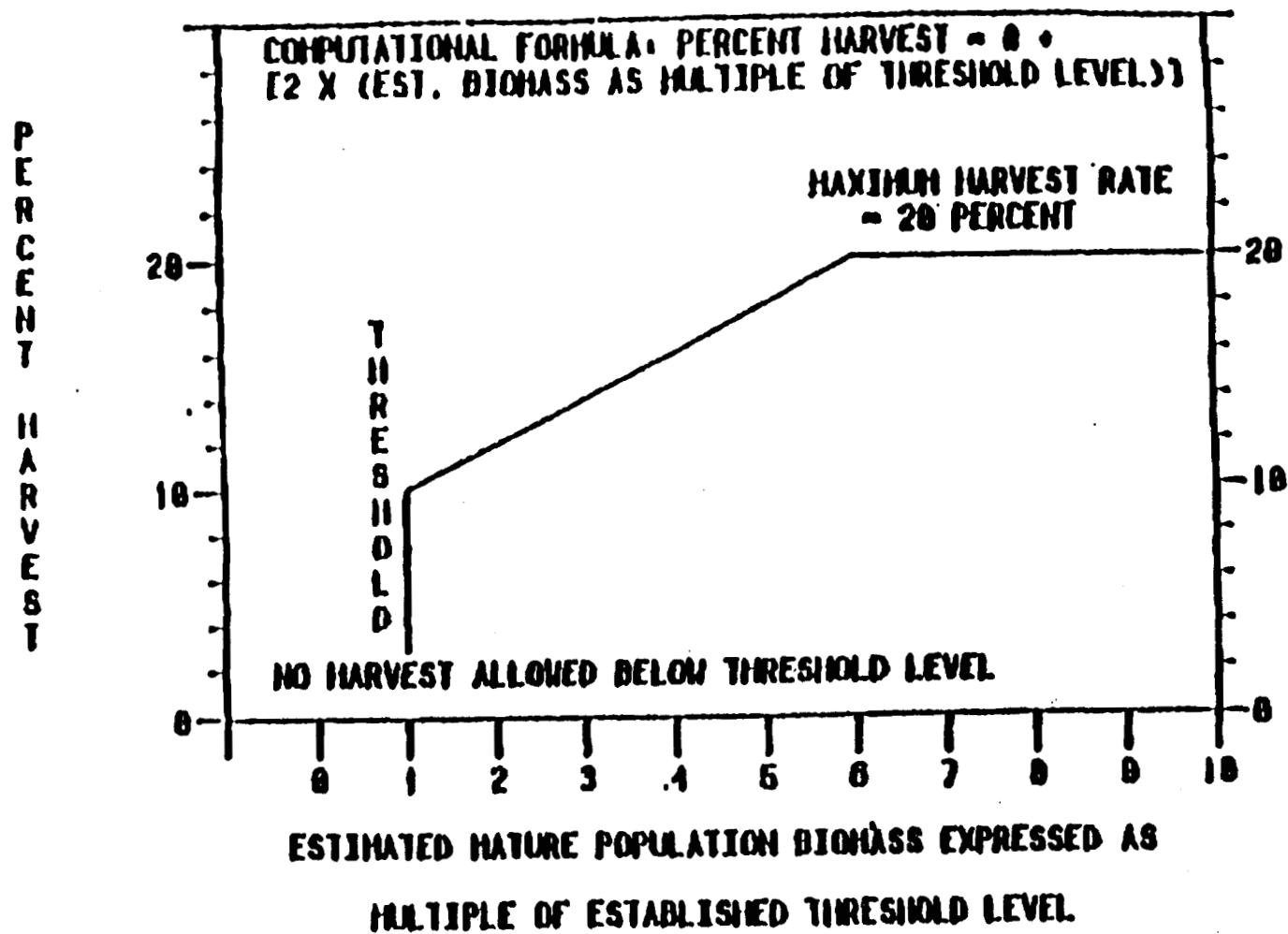


Figure 2. Generalized harvest strategy for Southeast Alaska herring stocks showing allowable percent annual harvest related to estimated biomass of mature stock expressed as a multiple of the established harvest threshold level.

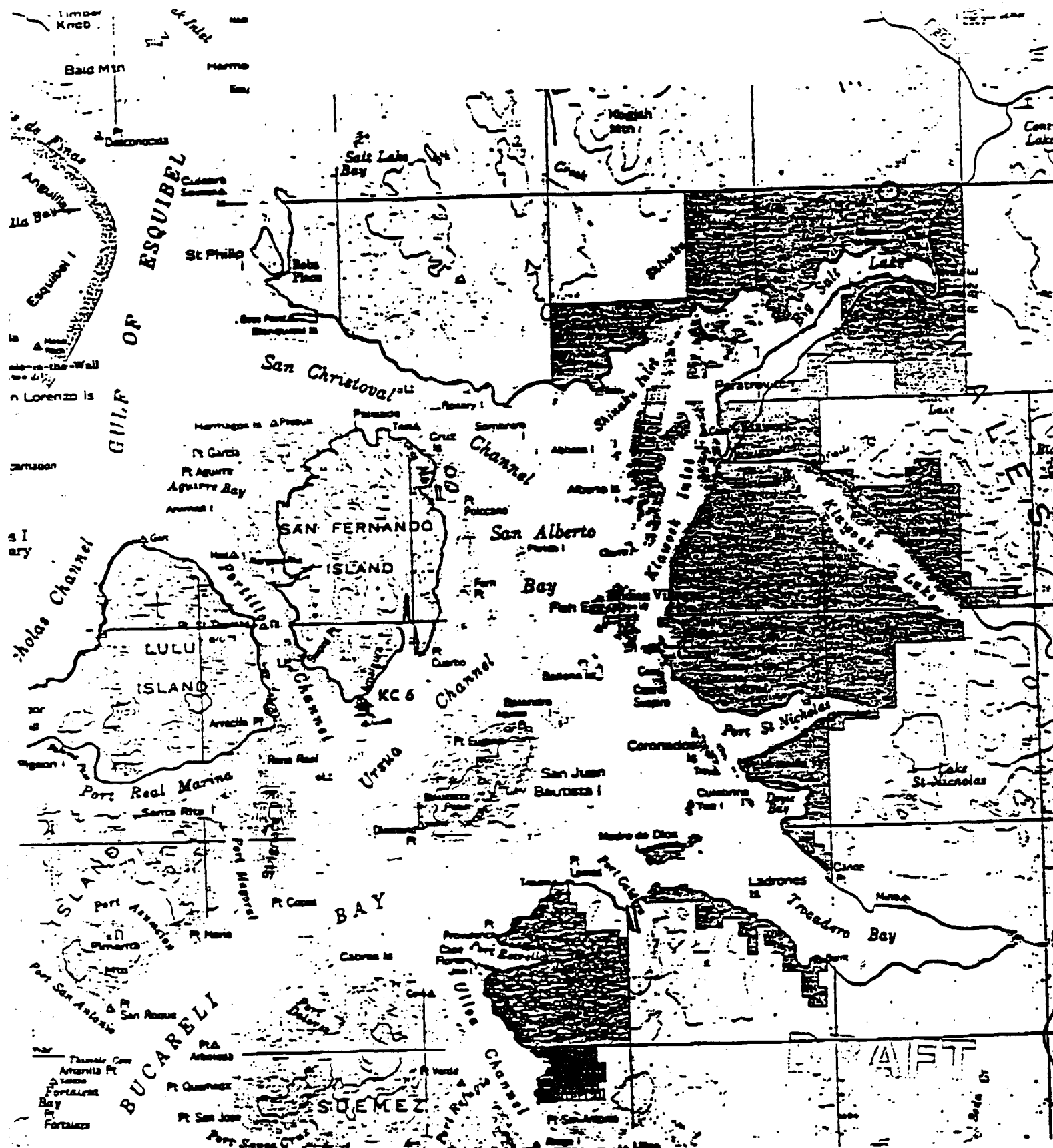
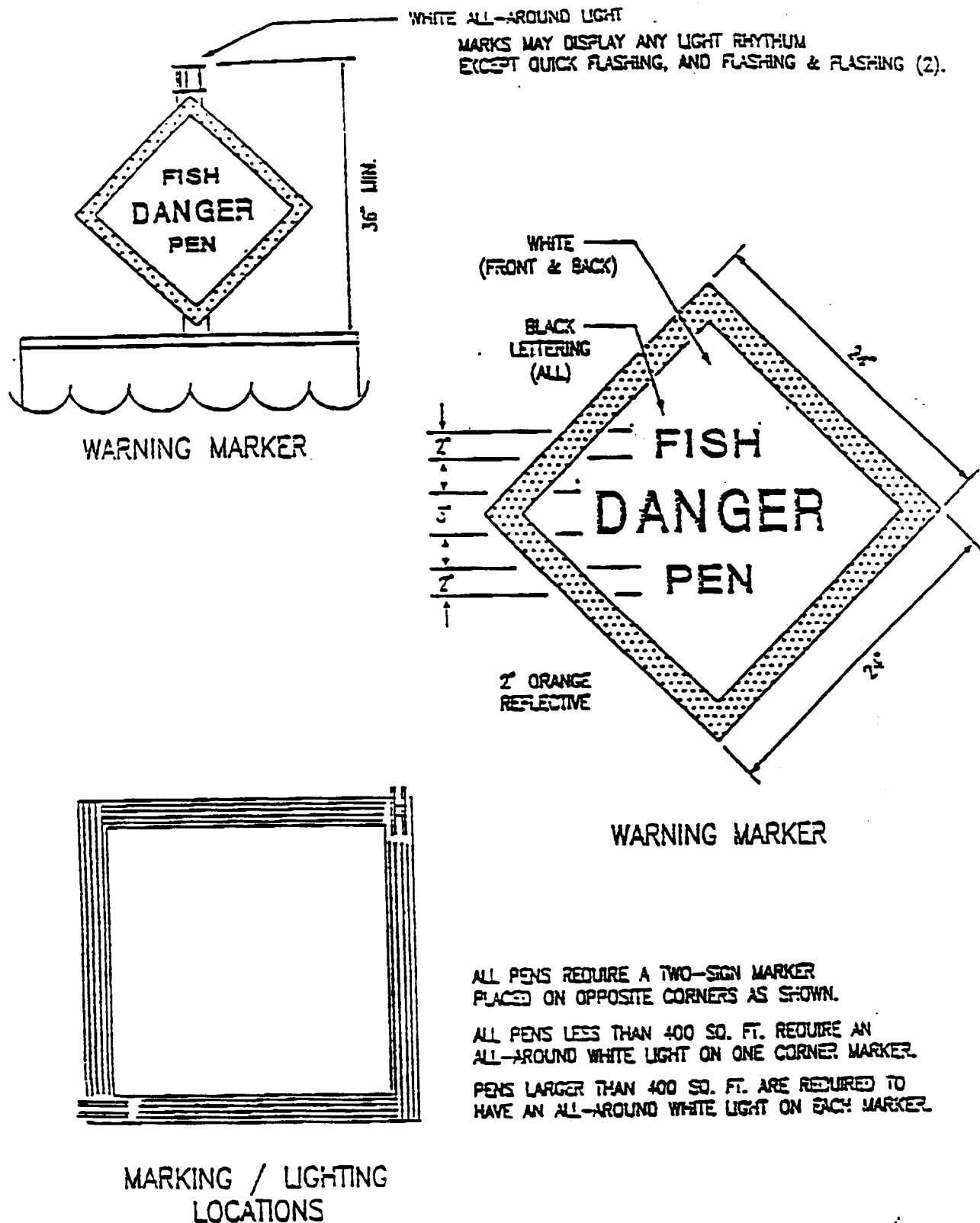


Figure 3. Private lands in the Craig/Klawock area.



## MARKING DIAGRAM

Figure 4. Coast Guard requirements for marking pounds.

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